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1921

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ITINERARY  
ANNUAL INSPECTION TRIP  
OF THE  
COLLEGE OF ENGINEERING  
UNIVERSITY OF ILLINOIS



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URBANA, ILLINOIS

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COLLEGE OF ENGINEERING  
UNIVERSITY OF ILLINOIS

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# ANNUAL INSPECTION TRIP

COLLEGE OF ENGINEERING

UNIVERSITY OF ILLINOIS

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## GENERAL DIRECTIONS

### **Be Prompt**

ALL MEMBERS of the party are required to report promptly at the appointed time and place. Instructors will call the roll at each place visited and any student absent from roll call will not be permitted to join the party until the time for the next event on the itinerary. Absence from roll call is sufficient justification for the dismissal of the student from the party, and for reporting him to the proper authorities at the University.

Hotel arrangements for the party will be made in advance. Students may be permitted to make other arrangements for lodging, when such request seems reasonable to the instructor in charge. Report of all such changes in the lodging will be made by the instructors in charge at the close of the trip.

### **Be Courteous**

Permission to visit the several places listed in the itinerary is a courtesy extended to the University which involves some expense and trouble to the management of these companies. Members of the party should be appreciative of this fact and conduct themselves properly as representatives of the University. It is particularly desirable that everyone refrain from smoking within the confines of the plants visited and that all fully observe posted regulations.

Any student who fails to conduct himself properly during an inspection trip will be reported to the University Committee on Discipline.

Since the University can have no proper control over others than those in regular attendance during these trips, friends of students will not be allowed to accompany the party except by permission previously obtained from the instructor in charge. This privilege will be extended only in rare instances and when the reasons for the request seem fully sufficient.

### **Be Careful**

While members of the faculty who are in immediate charge of these trips will make every effort to provide for the comfort and safety of the students in the party, there is, of course, some slight element of personal danger on railway trains, street cars, and in plants visited. Neither the owners of the plants visited, the University, nor members of the faculty can assume any responsibility for accidents which may occur to students during the trip. Proper care and deportment at all times will greatly reduce the possibility of accidents.

### **Be Observing**

Inspection trips are required because it is believed that the educational advantages resulting from the inspection of large industrial enterprises fully justifies the time and expense involved. To realize this ideal, however, students must use every endeavor to secure a correct impression of the places visited, an appreciation of the general nature of the plant inspected, and of its product, rather than of minor details.

Each student will be required to submit an acceptable report of the trip to the head of his department or to pass an examination to determine the extent and accuracy of the information secured, on or before December 1, 1921.

## Railroad and Hotel Service

Regular trains leave Champaign for Chicago at 6:30 P. M., Wednesday, October 12, and at 3:10 A. M., Thursday, October 13, from the I. C. station. No special railroad rates have been granted.

The Chicago headquarters during the trip will be at the Fort Dearborn Hotel, corner of Van Buren and LaSalle streets. The rates will be as follows:

|                                  |           |
|----------------------------------|-----------|
| Single room with bath.....       | \$3.00    |
| Single room without bath.....    | 2.50      |
| Double room with bath.....       | 4.00      |
| Double room without bath.....    | 3.50      |
| Four in a room with bath.....    | 8.00 8.50 |
| Four in a room without bath..... | 6.00      |

The Milwaukee headquarters will be at the Hotel Wisconsin on 3rd Avenue just north of Grand Avenue. The rates will be as follows:

|                               |           |
|-------------------------------|-----------|
| Single room with bath.....    | \$2.50 up |
| Single room without bath..... | 2.00 up   |
| Double room with bath.....    | 5.00 up   |
| Double room without bath..... | 3.50 up   |
| Four in a room with bath..... | 8.00 up   |
| or \$2.00 per person per day. |           |

Trains returning to Champaign leave 12th Street Station at 4:50 P. M., 6:15 P. M., and 8:15 P. M., Saturday, October 15.

Students are cautioned that *daylight saving* time is in use in Chicago.

## ARCHITECTURE

### Thursday, October 13

- 8:30 a. m. Assemble at FORT DEARBORN HOTEL for instructions.
- 9:00 a. m. SURVEY OF OFFICE BUILDINGS in the Loop.
- 1:30 p. m. Arrive at the plant of the NORTHWESTERN TERRA COTTA COMPANY, 2545 Clybourn Avenue.

### Friday, October 14

- 8:00 a. m. Assemble at FORT DEARBORN HOTEL for instructions.
- 8:15 a. m. Inspect the CHICAGO THEATER, State and Lake Streets.
- 10:30 a. m. Arrive at the UNDERWRITERS' LABORATORIES, 207 East Ohio Street.
- 1:15 p. m. Assemble in the main entrance to the INSURANCE EXCHANGE BUILDING.
- 1:30 a. m. Arrive at the NATIONAL X-RAY REFLECTOR COMPANY, 235 Jackson Boulevard.
- 3:30 p. m. Inspect the BLACKSTONE HOTEL, South Michigan Boulevard.

### Saturday, October 15

- 8:00 a. m. Assemble at FORT DEARBORN HOTEL for instructions.
- 8:15 a. m. Arrive at the BUILDING MATERIAL EXHIBIT, Insurance Exchange Building.
- 10:30 a. m. Inspect the NORTHWESTERN TERMINAL STATION, Canal and Madison Streets.
- 12:30 p. m. Lunch at the ART INSTITUTE.
- 1:00 p. m. THE ART INSTITUTE.

## ARCHITECTURAL ENGINEERING

### Thursday, October 13

- 8:00 a. m. Assemble at FORT DEARBORN HOTEL for instructions.
- 8:15 a. m. Arrive at the LASSIG PLANT of the AMERICAN BRIDGE COMPANY, 2601 Clybourn Avenue.
- 12:30 p. m. Lunch in the vicinity.
- 1:30 p. m. Arrive at the plant of the NORTHWESTERN TERRA COTTA COMPANY, 2545 Clybourn Avenue.

### Friday, October 14

- 8:00 a. m. Assemble at FORT DEARBORN HOTEL for instructions.
- 8:15 a. m. Inspect the CHICAGO THEATER, State and Lake Streets.
- 10:30 a. m. Arrive at the UNDERWRITERS' LABORATORIES, 207 East Ohio Street.
- 1:30 p. m. Arrive at the FEDERAL RESERVE BANK, LaSalle Street and Jackson Boulevard.
- 3:30 p. m. Arrive at the RAILWAY MAIL TERMINAL BUILDING, Clinton Street, between Adams and Madison Street.

### Saturday, October 15

- 8:00 a. m. Assemble at FORT DEARBORN HOTEL, for instructions.
- 8:15 a. m. Arrive at the BUILDING MATERIAL EXHIBIT, Insurance Exchange Building.
- 10:30 a. m. Arrive at the NORTHWESTERN TERMINAL, Canal and Madison Streets.
- 1:00 p. m. Assemble at the Hotel.
- 1:30 p. m. Arrive at the FIELD MUSEUM OF NATURAL HISTORY, opposite Illinois Central Station at 12th Street.

## CERAMIC ENGINEERING

### Thursday, October 13

- 7:15 a. m. Assemble at MAJESTIC HOTEL, 11th and Pine Streets, St. Louis, Mo.
- 8:00 a. m. Arrive at HYDRAULIC-PRESS BRICK CO., Manchester Ave. and Kingshighway.
- 12:00 noon Lunch.
- 1:00 p. m. Arrive at ST. LOUIS TERRA COTTA CO., 5809-15 Manchester Ave.
- 3:00 p. m. Arrive at EVENS & HOWARD FIRE BRICK CO., sewer pipe plant.

### Friday, October 14

- 7:15 a. m. Assemble at MAJESTIC HOTEL.
- 8:00 a. m. Arrive at LACLEDE CHRISTY CLAY PRODUCTS Co., Manchester and Suphur Aves.
- 12:00 noon Lunch.
- 1:00 p. m. Arrive at MOUND CITY ROOFING TILE CO., 3301 Morganford Road.
- 3:00 p. m. Arrive at LACLEDE CHRISTY CLAY PRODUCTS Co., Kingshighway and Devonshire.

### Saturday, October 15

- 7:15 a. m. Assemble at MAJESTIC HOTEL.
- 8:04 a. m. Take Alton, Granite ; & St. Louis car to Alton.
- 9:05 a. m. Arrive at Alton, walk to ILLINOIS GLASS CO.
- 12:00 noon Take car to St. Louis.
- 1:00 p. m. Arrive at St. Louis. Lunch.
- 2:00 p. m. Arrive at MISSISSIPPI GLASS CO., 4070 N. Main St.
- 5:32 p. m. Take Wabash train at Union Station for Bement, arriving at 9:01 p. m.
- 10:00 p. m. Take I. T. S. car for Champaign, arriving at 10:55 p. m.

## **CIVIL ENGINEERING**

**Thursday, October 13**

- 5:45 a. m.** Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions. Each student will have previously obtained his own ticket from Chicago to Gary.
- 6:00 a. m.** Leave LaSalle Street Station on New York Central train No. 162 for Gary, Indiana.
- 8:00 a. m.** Report at the entrance to the plant of the ILLINOIS STEEL COMPANY.
- 12:30 p. m.** Luncheon at Y. M. C. A. cafeteria, Gary.
- 1:30 p. m.** Take street car to plant of AMERICAN BRIDGE COMPANY, Curtis.
- 4:53 p. m.** Take train at flag stop at lower end of shipping yard for Chicago.

**Friday, October 14**

- 8:00 a. m.** Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions.
- 8:30 a. m.** Take city tugs at south bank of the Chicago River, between the State Street Bridge and the Dearborn Street Bridge. Inspect movable bridges on the Chicago River. Luncheon at noon. Receive instructions for reassembling before leaving tugs. In the afternoon inspect the Garbage Disposal Plant and the Western Avenue Water Tunnel under the guidance of Mr. Avery of the City Engineer's Office.

**Saturday, October 15**

### **Students Taking Highway Option.**

- 8:45 a. m.** Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions.
- 9:00 a. m.** Take automobiles at FORT DEARBORN HOTEL and inspect highway construction in Cook County.

**Students taking Structural Option and General Civil  
Engineering Option.**

- 8:00 a. m.** Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions.
- 8:30 a. m.** RAILWAY MAIL TERMINAL BUILDING, Jackson Blvd. and Canal Street.
- 9:30 a. m.** FEDERAL RESERVE BANK BUILDING, S. LaSalle Street just north of Jackson Blvd.
- 10:45 a. m.** UNION LIBERTY CO'S. OFFICE BUILDING, Clark Street just north of Madison Street.
- 11:45 a. m.** Get lunch at any convenient place near LaSalle Street Station.
- 12:30 p. m.** Leave LaSalle Street Station on Rock Island Railroad for AUBURN PARK, 78th Street, to inspect track elevation. Go to Blue Island to inspect Drainage Canal Diversion.

## ELECTRICAL ENGINEERING

Thursday, October 13

- 8:15 a. m. Take Logan Square elevated train at LaSalle Station. Off at California Ave., taking north bound surface car.
- 9:00 a. m. Arrive at Northwest Generating Station of COMMONWEALTH EDISON COMPANY.
- 11:45 a. m. Take south bound surface car, transferring to west bound car for Hawthorne.
- 12:45 a. m. Arrive at works of WESTERN ELECTRIC COMPANY, Hawthorne.
- 1:00 p. m. Lunch by invitation of the company.
- 2:00 p. m. Inspection of works.
- 4:45 p. m. Take elevated cars for Loop.
- 7:10 p. m. Leave 209 S. Wabash ave. by special train over Chicago, North-shore and Milwaukee road, stopping to inspect AUTOMATIC SUBSTATION at Lake Bluff.
- 10:00 p. m. Arrive at Milwaukee and proceed to HOTEL WISCONSIN.

Friday, October 14

- 8:30 a. m. Take special street car at Public Service Station, Sycamore Street for WESTINGHOUSE LAMP COMPANY.
- 9:00 a. m. Arrive at works of WESTINGHOUSE LAMP COMPANY.
- 11:15 a. m. Take special car for substation of MILWAUKEE ELECTRIC RAILWAY AND LIGHT COMPANY, West Allis.
- 12:35 p. m. Return by special car to ALLIS-CHALMERS CLUB.
- 1:00 p. m. Lunch by invitation of ALLIS-CHALMERS MFG. Co., after which an inspection of the works will be made.
- 5:00 p. m. Take car down town.
- 7:30 p. m. Leave Sixth and Sycamore Sts. by special train. over the Chicago, North-Shore and Milwaukee road for Chicago.
- 10:00 p. m. Arrive in Chicago and proceed to FORT DEARBORN HOTEL.

## Saturday, October 15

- 7:00 a. m. Leave LaSalle station in special car on Rock Island train for Joliet. A party ticket will be provided.
- 8:30 a. m. Arrive at Joliet. Check grips at Traction Station.
- 9:00 a. m. Arrive at Joliet works of ILLINOIS STEEL COMPANY.
- 10:30 a. m. Enter works of AMERICAN STEEL AND WIRE COMPANY.
- 12:00 noon Lunch at ILLINOIS STEEL COMPANY restaurant.
- 1:00 p. m. Take Lockport street car.
- 1:45 p. m. Arrive at HYDRO-ELECTRIC GENERATING STATION of Sanitary District.
- 3:00 p. m. Leave power house for Joliet.
- 4:00 p. m. Take car for Matteson.
- 5:50 p. m. Leave Matteson by Illinois Central Railroad, south bound.
- 8:45 p. m. Arrive at Champaign, Illinois.

## MECHANICAL ENGINEERING

Thursday, October 13

- 7:30 a. m. Assemble at the FORT DEARBORN HOTEL, VanBuren and LaSalle Streets.
- 7:45 a. m. Leave Chicago North Shore and Milwaukee Railroad terminal, 209 S. Wabash Ave., for Kenosha, Wisconsin.
- 8:15 a. m. Arrive at the plant of the NASH MOTORS COMPANY.
- 11:30 a. m. Leave the NASH MOTORS COMPANY for Milwaukee, arriving there at noon. Proceed to the WISCONSIN HOTEL.
- 1:30 p. m. Leave the Public Service Building, via special street cars, for a visit to the plant of the FALK COMPANY.
- 4:30 p. m. Leave the FALK COMPANY for down town.
- 7:30 p. m. Leave the Public Service Building via special street cars, for a visit to the LAKESIDE POWER PLANT.

Friday, October 14

- 8:15 a. m. Leave the Public Service Building, via special street cars, for a visit to the plant of the ALLIS-CHALMERS MFG. Co., at West Allis.
- 11:30 a. m. Leave ALLIS-CHALMERS MFG. Co. for down town.
- 1:30 p. m. Leave the Public Service Building, via special street cars, for a visit to the plant of the CHAIN BELT COMPANY.
- 4:30 p. m. Leave the CHAIN BELT COMPANY for down town.
- 7:30 p. m. Leave Milwaukee via special cars for Chicago.

Saturday, October 15

- 8:15 a. m. Assemble at the Van Buren Street Suburban Station and take a South Chicago Express. Inspect the SOUTH WORKS of the ILLINOIS STEEL Co.
- 12:00 noon Leave the plant of the ILLINOIS STEEL COMPANY and take Illinois Central suburban train for down town.
- 2:00 p. m. Inspect the power plant of the CONWAY BUILDING, corner of Washington and Clark Streets.

## MINING ENGINEERING

### Monday, October 17

- 4:23 a. m. Leave Champaign, Big Four R. R.
- 5:52 a. m. Arrive at Bloomington.
- 6:10 a. m. Leave Bloomington, Illinois Central R. R.
- 8:11 a. m. Arrive at Oglesby. Visit MARQUETTE CEMENT COMPANY, mine and plant. Visit quarry and plant of LEHIGH PORTLAND CEMENT COMPANY.
- 1:00 p. m. Take bus to LaSalle. Visit Union mine of LASALLE COUNTY CARBON COAL COMPANY.
- 7:00 p. m. Visit Mine Rescue Station. Spend night either at Rescue Station or Kaskaskia Hotel.

### Tuesday, October 18

- 7:00 a. m. Leave LaSalle, Rock Island R. R.
- 8:40 a. m. Arrive Joliet. Visit steel works of AMERICAN STEEL & WIRE COMPANY.
- 1:00 p. m. Visit BY-PRODUCT COKE PLANT of the ILLINOIS STEEL COMPANY and Hydro-electric Plant at Lockport.
- 4:00 p. m. Leave Lockport, Santa Fe R. R.
- 5:15 p. m. Arrive Chicago.
- 8:00 p. m. Visit AMERICAN MINING CONGRESS EXPOSITION at Coliseum. Spend night at FORT DEARBORN HOTEL.

### Wednesday, October 19

- 8:00 a. m. Visit offices of ROBERTS & SCHAEFER COMPANY in Wrigley Building. Lecture by Colonel Warren Roberts on Engineering Construction.
- 10:00 a. m. Visit offices of COAL COMPANIES, McCormick Bldg.
- 1:00 p. m. Visit American Mining Congress Exposition.
- 6:15 p. m. Return to Champaign, Illinois Central R. R.

## MUNICIPAL AND SANITARY ENGINEERING

### Thursday, October 13

- 7:30 a. m. Assemble at the FORT DEARBORN HOTEL.
- 7:45 a. m. Take elevated train in Loop for Wilson Avenue.
- 8:15 a. m. Leave elevated station at Wilson Avenue and proceed to LAKEVIEW PUMPING STATION.
- 10:15 a. m. Take elevated train at Wilson Avenue for EVANSTON FILTRATION PLANT.
- 11:15 a. m. Arrive at EVANSTON FILTRATION PLANT.
- 1:19 p. m. Leave Central Street, Evanston on Chicago, North Shore and Milwaukee Electric Railroad for GREAT LAKES NAVAL TRAINING STATION.
- 1:57 p. m. Arrive at Great Lakes.
- 4:43 p. m. Leave Great Lakes for Waukegan,
- 5:00 p. m. Arrive Waukegan and proceed to Pumping Station.
- 8:59 p. m. Leave Waukegan on Northwestern Railway for Milwaukee.
- 10:15 p. m. Arrive at Milwaukee and proceed to the WISCONSIN HOTEL.

### Friday, October 14

- 8:00 a. m. Report at the City Hall at the office of the Chief Engineer Milwaukee Sewerage Commission to inspect Experimental Sewage Testing Station and sewer work under construction.
- 1:00 p. m. Report at the City Hall at the office of the City Engineer to inspect Waterworks Pumping Station and Garbage Reduction Plant.
- 6:00 p. m. Take Northwestern Railroad train to Chicago.

### Saturday, October 15

- 7:30 a. m. Take Illinois Central Suburban Express at Van Buren St., for 115th Street and South Park Avenue.
- 8:45 a. m. Arrive at 115th Street and South Park Ave.
- 1:00 p. m. Leave 115th St. and South Park Ave. on I. C.

suburban for 63rd Street, Woodlawn Station and take car for CHICAGO REDUCTION PLANT.

**3:00 p. m.** Arrive at CHICAGO REDUCTION PLANT.

**4:00 p. m.** Arrive at Filtration Plant, CHICAGO UNION STOCK YARDS.

**5:30 p. m.** Arrive at 39th Street Sewage Pumping Station.

## RAILWAY CIVIL AND RAILWAY MECHANICAL ENGINEERING

### Thursday, October 13

- 5:45 a. m. Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions. Each student will have previously obtained his individual ticket from Chicago to Gary, Indiana.
- 6:00 a. m. Leave LaSalle Street Station on New York Central Railroad (Train 162) for Gary, Indiana. Get breakfast at Y. M. C. A. Cafeteria in Gary.
- 8:00 a. m. Report at the entrance to the plant of the ILLINOIS STEEL COMPANY.
- 12:30 p. m. Luncheon at Y. M. C. A. Cafeteria, Gary.
- 1:30 p. m. Take street car to plant of AMERICAN BRIDGE COMPANY, Curtis.
- 4:53 p. m. Take train at flag stop at lower end of shipping yard for Chicago.

### Friday, October 14

- 8:00 a. m. Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions.
- 8:30 a. m. Take city launch at south bank of Chicago River between the State Street Bridge and the Dearborn Street Bridge for trip on Chicago River to inspect Movable Bridges. Luncheon at noon in Loop district.
- 1:15 p. m. Take Oak Park Elevated Line in the Loop for Crawford Avenue. Inspect CHICAGO & NORTH WESTERN RAILWAY SHOPS at West 40th Street.

### Saturday, October 15

- 8:00 a. m. Assemble in lobby of FORT DEARBORN HOTEL for roll call and general instructions.
- 8:30 a. m. Inspect RAILWAY MAIL TERMINAL BUILDING, Jackson Blvd. and Canal Street.
- 9:30 a. m. Inspect CHICAGO & NORTH WESTERN RAILWAY STATION at Madison and Canal Streets.
- 11:45 a. m. Get luncheon at any convenient place near LaSalle Street Station.

12:30 p. m. Leave LaSalle Street Station on Rock Island Railroad for Auburn Park, 78th Street to inspect track elevation. Go to Blue Island to inspect DRAINAGE CANAL DIVERSION.

## RAILWAY ELECTRICAL ENGINEERING

Thursday, October 13

- 7:00 p. m. Assemble in the lobby of EDISON BUILDING, 72 West Adams Street, inspect substation in basement of Edison building.
- 8:15 a. m. Take a Logan Square Elevated train at Adams Street. Off at California Ave., taking north bound surface car.
- 9:00 a. m. Arrive at Northwest Generating Station of COMMONWEALTH EDISON COMPANY.
- 11:45 a. m. Take south bound surface car, transferring to Madison St.
- 12:45 p. m. Lunch on Springfield Ave.
- 1:30 p. m. Arrive at West End Shops of CHICAGO SURFACE LINES.
- 4:45 p. m. Take surface cars for loop.
- 7:10 p. m. Leave 209 South Wabash Avenue by special train over Chicago, North Shore and Milwaukee Railroad, stopping to inspect AUTOMATIC SUBSTATION at Lake Bluff.
- 10:00 p. m. Arrive at Milwaukee and proceed to Hotel WISCONSIN.

Friday, October 14

- 8:30 a. m. Take special street car at Public Service Station, Sycamore Street for WESTINGHOUSE LAMP COMPANY.
- 9:00 p. m. Arrive at works of WESTINGHOUSE LAMP COMPANY.
- 11:15 a. m. Take a special car for substation of Milwaukee ELECTRIC RAILWAY AND LIGHT COMPANY, West Allis.
- 12:35 p. m. Return by special car to ALLIS-CHALMERS CLUB.
- 1:00 p. m. Lunch by invitation of ALLIS-CHALMERS MFG. Co., after which an inspection of the works will be made.
- 5:00 p. m. Take cars to Milwaukee.
- 7:30 p. m. Leave by special train over the Chicago, North Shore and Milwaukee Railroad for Chicago.
- 10:00 p. m. Arrive in Chicago and proceed to FORT DEARBORN HOTEL.

## Saturday, October 15

- 7:00 a. m. Leave LaSalle station in special car on Rock Island train for Joliet. A party ticket will be provided.
- 8:30 a. m. Arrive in Joliet. Check grips at Traction Station.
- 9:00 a. m. Arrive at Joliet works of ILLINOIS STEEL COMPANY.
- 10:30 a. m. Enter works of AMERICAN STEEL AND WIRE COMPANY.
- 12:00 noon Lunch at ILLINOIS STEEL COMPANY restaurant.
- 1:00 p. m. Take Lockport street car.
- 1:45 p. m. Arrive at HYDRO-ELECTRIC GENERATING STATION of the Sanitary District.
- 3:00 p. m. Leave power house for Joliet.
- 4:00 p. m. Take car for Matteson.
- 5:50 p. m. Leave Matteson by Illinois Central Railroad, south bound.
- 8:45 p. m. Arrive at Champaign, Illinois.

## DEPARTMENT OF ARCHITECTURE

### Faculty

PROFESSOR C. E. PALMER

PROFESSOR W. M. STANTON

### Graduate Student

OVEREND, H. G.

### Seniors in Architecture

BARCUME, LYLE N.  
BAROUSSE, I. C.  
BERENDES, EDWIN C.  
BRUNKOW, OTTO E.  
BISHOP, RICHARD E.  
DAVIS, H. B.  
GAYLE, VIRGINIA G.

HAZEN, NATHAN B.  
HENNING, FRED A.  
HUBBELL, E. L.  
JOHNSON, O. F.  
MARX, E. W.  
REIS, LEONARD J.  
TURNER, JOHN P.

### Seniors in Architectural Engineering

ALBERTSON, ROY A.  
ALEXANDER, L. J.  
BREDE, ERWIN C.  
BRESEE, JOHN J.  
CAHILL, C. A.  
COUNCELL, CHARLES C.  
DENISON, VAN ALVIN  
DHEIN, R. E.  
EASTMAN, A. R.  
EATON, COLMAN  
ERICSSON, D. A.

HOMAN, E. W.  
HORNER, EDWIN A.  
IBEN, RICHARD  
NELSON, J. A.  
REYNERTSON, GEORGE D.  
SCHLUTIUS, GEORGE W.  
SCHWENK, ELWOOD E.  
SEYMOUR, RUSSELL  
SPICER, RALPH F.  
STEINHAUSER, WILLIAM A.  
VALENTINE, E. E.

## DEPARTMENT OF CERAMIC ENGINEERING

### Faculty

PROFESSOR R. K. HURSH

### Seniors

R. E. ARNOLD  
D. B. ATWELL  
H. R. BORLAND  
I. B. BRANHAM

H. T. COSS.  
J. R. GREEN  
J. S. LATHROP  
R. E. LOWRANCE

### Juniors

H. C. MARTIN

### Special

H. MITSUYASU

## DEPARTMENT OF CIVIL ENGINEERING

### Faculty

PROFESSOR W. M. WILSON  
PROFESSOR HARDY CROSS

PROFESSOR C. C. WILEY  
PROFESSOR C. B. PYLE

### Graduate Students

S. FUSEJIMA

SABRO UCHIMRA

### Seniors

NORNAM BEGGS  
E. L. BENSON  
HUGH M. BESHES  
W. A. BLUE  
W. H. BRAMAN  
D. A. BRANIGAN  
J. C. BREMER  
ERNEST J. BUDGE  
E. J. CALTA  
PAUL L. CARLSON

J. M. JACK  
HANS C. JOHNSEN  
ELMER A. JOHNSON  
B. M. KLOWDEN  
E. C. KUEHL  
THYGE O. LARSEN  
M. M. MARTIN  
FREDERIC T. MEWES  
L. J. MILLER  
ROBERT F. MOORE

J. W. CLARK  
 ROBERT H. COOKE  
 RUSSELL G. CONE  
 LEROY M. G. DANGREMOND  
 ROBERT H. DUCHEMIN  
 PAUL B. DUSENBERRY  
 HERBERT E. DUX  
 RALPH E. ERICKSON  
 OSCAR FROST  
 JENIUS R. GARDNER  
 R. G. GHER  
 S. H. GOLB  
 SAMUEL GOLDSHALL  
 HERBERT M. GRONNERUD  
 A. E. HAMMERSTEIN  
 JAMES E. HARDEN  
 H. W. HARMAN  
 D. A. HARRIS  
 RALPH HEDGCOCK  
 DONALD E. HENN  
 D. M. HOLLINGSWORTH

RALPH E. NAYLOR  
 MILTON M. OLANDER  
 VERNER B. OLSON  
 ARTHUR B. PALMER  
 BENITO A. PI-IT  
 EDWIN J. RAICH  
 JAMES H. RICHARDSON  
 A. L. R. SANDERS  
 FRED W. SCHEINEMAN  
 R. M. SCHROEDER  
 R. W. SCHMIDT  
 J. E. SOULE  
 HERMAN W. STEIN  
 A. A. STRANE  
 LAUREN E. TEGHTMEYER  
 J. P. THOMPSON  
 R. C. TROUP  
 L. K. WHITCOMB  
 L. A. WHIPPLE  
 D. B. WILLETT  
 ABRAM S. WILSON

WESLEY D. WILSON

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Faculty

PROFESSOR ELLERY B. PAINE  
 PROFESSOR EDWARD H. WALDO  
 PROFESSOR ABNER R. KNIGHT  
 MR. ERNEST A. REID  
 MR. CHARLES A. KEENER

### Student Graduate

HIDEO TSUTSUMI

### Seniors

ABRAHAM, LEONARD G.  
 AIKEN, J. E.  
 ATKINSON, EARL W.

LINDLEY, J. R.  
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